

$$3k \times k \times \sin 120^\circ$$

$$9k^2 \times \frac{1}{2} = \Delta F \Rightarrow 3k^2 = \Delta F$$

$k^2 = 1A$
 $k = \sqrt{3P}$

$3k \sqrt{10} \Delta = \Delta F$

1

$$P = \Delta k \Rightarrow \Delta = \frac{P}{k} = \frac{P}{\sqrt{3P}} = \sqrt{\frac{P}{3}}$$

$$\left| \left(\frac{1}{r} AD \times AE \sin A \right) - \left(\frac{1}{r} AB \times AC \cos A \right) \right| = 1, \sqrt{3}$$
2

$$\sin A |AD \times AE - (AB \times AC)| = 1, \sqrt{3}$$

$$\sin A \left| \frac{V \times F}{rA} - \frac{\Delta \times V}{rA} \right| = 1, \sqrt{3}$$

$$V \sin A = \frac{V}{r} \Rightarrow \sin A = \frac{1}{r} \Rightarrow A = 30^\circ$$

$$\tan 30^\circ = \frac{\sqrt{3}}{3}$$

$$\frac{1}{|\cos \alpha|} \frac{\sin \alpha}{\cos \alpha} = \frac{1 + \sin \alpha}{|\cos \alpha|} \Rightarrow \tan \alpha = 1$$
3

$$\frac{|\sin \alpha|}{\cos \alpha} = \frac{\sin \alpha}{\cos \alpha} \Rightarrow \sin \alpha = 1$$

(یا همان)

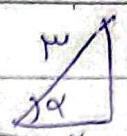
$$|\tan \alpha| = \frac{r}{r} \Rightarrow \tan \alpha = -\frac{r}{r} \quad -\cot \alpha = ? = \frac{r}{r}$$
4

$$\frac{-\sin \alpha - r \sin \alpha}{-\sin \alpha - \sin \alpha} = \frac{-1}{-r} = \frac{1}{r}$$

$\alpha = 120^\circ$

5

$\tan \alpha = \frac{\sqrt{a}}{r}$

$$\frac{\cos \alpha + \sin \alpha}{\left| \frac{a}{r} - 1 \right|} = \frac{\frac{\sqrt{a} + r}{r}}{\frac{r - \sqrt{a}}{r}} = \frac{r(\sqrt{a} + r)}{r - \sqrt{a}}$$


5

$$\sin^2 \alpha + \cos^2 \alpha = 1 \Rightarrow r^2 + a^2 = 1 \Rightarrow \boxed{a = -\frac{\sqrt{1-r^2}}{r}}$$

6

$$\frac{r \cdot m}{r - m^2} = \sqrt{r} = \tan \gamma$$

10

$$\sqrt{r} \cdot m^2 + r \cdot m - \sqrt{r} = 0 \xrightarrow{\div \sqrt{r}} m^2 + \frac{r\sqrt{r}}{r} m - 1 = 0$$

11

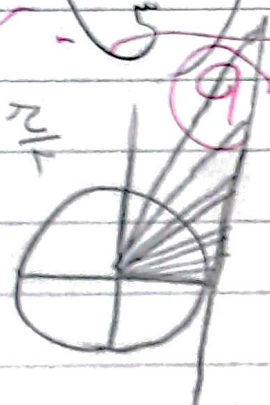
$$m = \frac{-\frac{r\sqrt{r}}{r} \pm \sqrt{\left(\frac{r\sqrt{r}}{r}\right)^2 + 4}}{2} \Rightarrow \text{انتقال } = \frac{\sqrt{a}}{a} = \frac{r}{-\sqrt{r}} = \frac{r\sqrt{r}}{-r}$$

15

$$\frac{\pi}{r} - \pi = \alpha \quad -\frac{\pi}{r} (-2\pi < \frac{\pi}{r} \Rightarrow 0 < \alpha < \frac{\pi}{r}$$

16

$$\tan \alpha < +\infty \quad 0 < \frac{1-m}{r+m} < +\infty$$



17

$$-\sqrt{r} \cdot x - \frac{\sqrt{r}}{r} + -\sqrt{r} \cdot x \cdot \frac{\sqrt{r}}{r}$$

18

$$\frac{r}{r} - \frac{r}{r} = 0$$